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Reviewer: markspencer

Timestamp: Mon Oct 15 14:22:39 EDT 2007

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Application No: 10551488 Version No: 1.0

Input Set:

Output Set:

Started: 2007-09-25 17:09:37.062

Finished: 2007-09-25 17:09:37.232

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Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 14

Actual SeqID Count: 14

SEQUENCE LISTING

<110> Ishii, Yasuyuki
Yodoi, Junji
Nakamura, Hajime
Kondo, Norihiko

<120> Thioredoxin derivatives

<130> SAEG129.015APC

<140> 10551488

<141> 2007-09-25

<150> PCT/JP2004/004523

<151> 2004-03-30

<150> JP 2003-93342

<151> 2003-03-31

<150> JP 2003-349109

<151> 2003-08-10

<160> 14

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Ala Ala Gly Asp Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys

20 25 30

ggg cct tgc aaa atg atc aag cct ttc ttt cat tcc ctc tct gaa aag 144

Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys

35 40 45

tat tcc aac gtg ata ttc ctt gaa gta gat gtg gat gac tgt cag gat 192

Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp

50 55 60

gtt gct tca gag tgt gaa gtc aaa tgc atg cca aca ttc cag ttt ttt 240

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65 70 75 80

aag aag gga caa aag gtg ggt gaa ttt tct gga gcc aat aag gaa aag	288
Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys	
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Leu Glu Ala Thr Ile Asn Glu Leu Val	
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20 25 30

Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys
35 40 45

Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
50 55 60

Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe
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Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
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Leu Glu Ala Thr Ile Asn Glu Leu Val
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<223> The 'Xaa' at location 35 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, or Phe.

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20 25 30

ggg cct nnn aaa atg atc aag cct ttc ttt cat tcc ctc tct gaa aag 144
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35 40 45

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Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe
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gct	gca	ggg	gat	aaa	ctt	gta	gta	gtt	gac	ttc	tca	gcc	acg	tggt	tgt	96
Ala	Ala	Gly	Asp	Lys	Leu	Val	Val	Val	Asp	Phe	Ser	Ala	Thr	Trp	Cys	
			20					25					30			

ggg	cct	tcc	aaa	atg	atc	aag	cct	ttc	ttt	cat	tcc	ctc	tct	gaa	aag	144
Gly	Pro	Ser	Lys	Met	Ile	Lys	Pro	Phe	Phe	His	Ser	Leu	Ser	Glu	Lys	
			35				40					45				

tat	tcc	aac	gtg	ata	ttc	ctt	gaa	gta	gat	gtg	gat	gac	tgt	cag	gat	192
Tyr	Ser	Asn	Val	Ile	Phe	Leu	Glu	Val	Asp	Val	Asp	Asp	Cys	Gln	Asp	
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gtt	gct	tca	gag	tgt	gaa	gtc	aaa	tgc	atg	cca	aca	ttc	cag	ttt	ttt	240
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Lys	Lys	Gly	Gln	Lys	Val	Gly	Glu	Phe	Ser	Gly	Ala	Asn	Lys	Glu	Lys	
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ctt	gaa	gcc	acc	att	aat	gaa	tta	gtc	taa							318
Leu	Glu	Ala	Thr	Ile	Asn	Glu	Leu	Val								
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atg	gtg	aag	cag	atc	gag	agc	aag	act	gct	ttt	cag	gaa	gcc	ttg	gac	48
Met	Val	Lys	Gln	Ile	Glu	Ser	Lys	Thr	Ala	Phe	Gln	Glu	Ala	Leu	Asp	
1				5					10					15		

gct	gca	ggg	gat	aaa	ctt	gta	gta	gtt	gac	ttc	tca	gcc	acg	tggt	tct	96
Ala	Ala	Gly	Asp	Lys	Leu	Val	Val	Val	Asp	Phe	Ser	Ala	Thr	Trp	Ser	
			20					25					30			

ggg	cct	tcc	aaa	atg	atc	aag	cct	ttc	ttt	cat	tcc	ctc	tct	gaa	aag	144
Gly	Pro	Ser	Lys	Met	Ile	Lys	Pro	Phe	Phe	His	Ser	Leu	Ser	Glu	Lys	
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tat tcc aac gtg ata ttc ctt gaa gta gat gtg gat gac tgt cag gat	192
Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp	
50 55 60	

gtt gct tca gag tgt gaa gtc aaa tgc atg cca aca ttc cag ttt ttt	240
Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe	
65 70 75 80	

aag aag gga caa aag gtg ggt gaa ttt tct gga gcc aat aag gaa aag	288
Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys	
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ctt gaa gcc acc att aat gaa tta gtc taa	318
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gct gca ggt gat aaa ctt gta gta gtt gac ttc tca gcc acg tgg tct	96
Ala Ala Gly Asp Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Ser	
20 25 30	

ggg cct tgc aaa atg atc aag cct ttc ttt cat tcc ctc tct gaa aag	144
Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys	
35 40 45	

tat tcc aac gtg ata ttc ctt gaa gta gat gtg gat gac tgt cag gat	192
Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp	
50 55 60	

gtt gct tca gag tgt gaa gtc aaa tgc atg cca aca ttc cag ttt ttt	240
Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe	
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aag aag gga caa aag gtg ggt gaa ttt tct gga gcc aat aag gaa aag	288
Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys	
85 90 95	

ctt gaa gcc acc att aat gaa tta gtc taa	318
Leu Glu Ala Thr Ile Asn Glu Leu Val	
100 105	